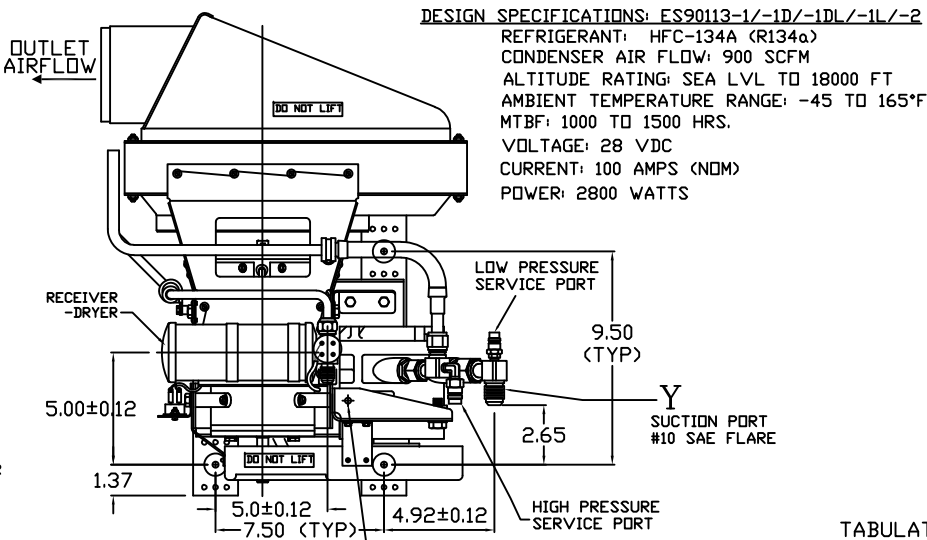
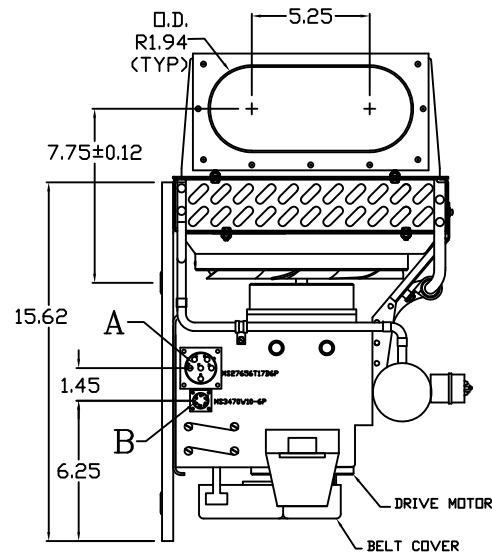


THIS DRAWING DEFINES THE OVERALL GEOMETRY & PERFORMANCE SPECIFICATIONS OF AIR CONDITIONER EVAPORATORS APPLIED FOR AIRCRAFT USE & CONSTITUTES THE ACCEPTANCE CRITERIA THEREOF. CONFORMANCE OF HDWR TO THESE REQ'S IS ACCEPTABLE IN LIEU OF VENDOR DOCUMENTATION.

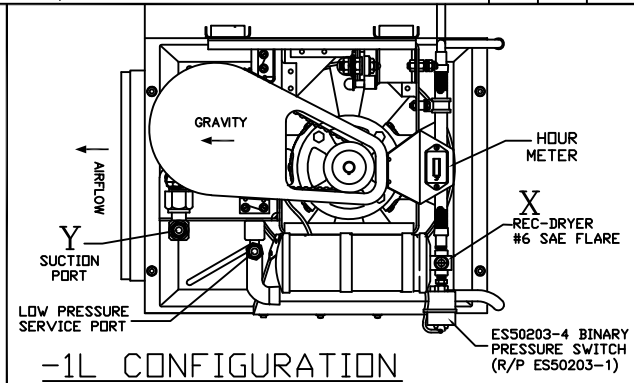
NOTES:
1. EFFECTIVE 60 SQ. IN. FRESH AIR EXHAUST REQ'D. MAX FAN BACKPRESSURE 0.10 IN. H₂O
2. PLASTIC PARTS MEET FAR 25.853b BURN SPEC.
3. USE EVAPORATORS WITH AUTOMATIC EXPANSION VALVES SET NO LOWER THAN 30 PSIG.

ACCEPTED SOURCE: ENVIRO SYSTEMS INC.
4000 HIGHWAY 99 NORTH
SEMINOLE, OK, 74868
(405)-382-0731

SHEET	REV	DATE	DESCRIPTION	BY	APR	CHK
1	A	05/16/08	SPEC'D BINARY PRESS SWITCHES AS ES50203-X.		REB	CEH
1	B	06/25/09	ES50203-3 WAS ES50203-1/-2 (ON -1/-1L CONFIGS). CRCT'N: "COMP. COND. MOD." WAS "EVAPORATOR" IN TABLE AND NOTE 1.		BNS	CEH
1	C	08/20/09	ES50203-4 WAS ES50203-3. ADDED MFR'R DATA TO BE CONSISTENT WITH ES90112.		REB	CEH
1	D	03/02/2011	THERMAL FUSE ADDED; P/N 1134400-25 S/N 103 & SUBS.	REB		
2	E	08/04/2016	ADDED SHEET 2, -2.	PM		



DESIGN SPECIFICATIONS: ES90113-1/-1D/-1DL/-1L/-2
REFRIGERANT: HFC-134a (R134a)
CONDENSER AIR FLOW: 900 SCFM
ALTITUDE RATING: SEA LVL TO 18000 FT
AMBIENT TEMPERATURE RANGE: -45 TO 165°F
MTBF: 1000 TO 1500 HRS.
VOLTAGE: 28 VDC
CURRENT: 100 AMPS (NOM)
POWER: 2800 WATTS



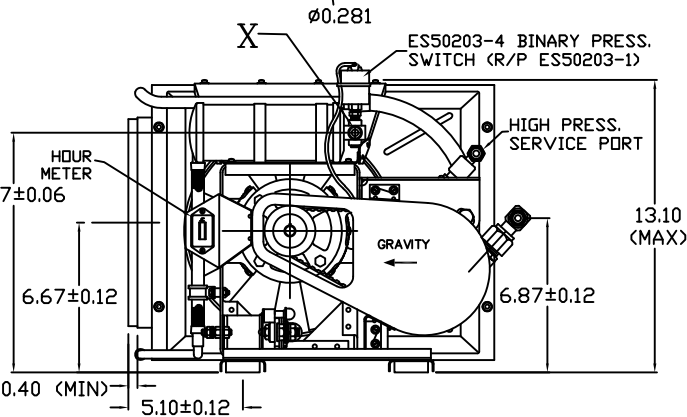
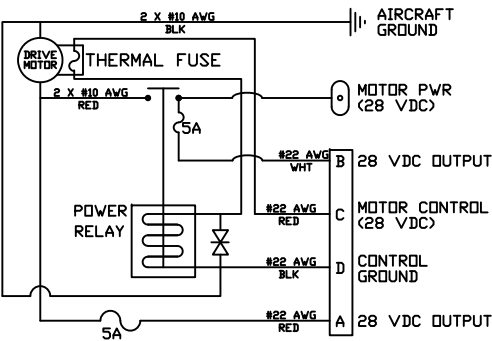
CONNECTION BLOCK

CONNECTION	DESCRIPTION	TYPE	SIZE
A	MOTOR INPUT POWER 28 VDC CONNECTION	ELECTRICAL	3/8-24 THD
B	UNIT AND MOTOR GROUND CONNECTION	ELECTRICAL	MS3470W10-6P RECEPTACLE
X	REC-DRYER DISCHARGE PORT CONNECTION	REFRIGERANT	3/8 TUBE "O" FTG. 5/8-18 THD
Y	COMPRESSOR SUCTION PORT CONNECTION	REFRIGERANT	5/8 TUBE "O" FTG. 7/8-14 THD

TABULATION BLOCK

CONFIG.	STOCK NO.	CAPACITY (BTUH)	COND. HEAT REJ. (BTUH) 95°F 103°F	WEIGHT (LBS)	NOTES
-1	1134400-25	16500	25000	TBD	51.0 RIGHT HAND
-1D	1134400-45	N/A	N/A	N/A	51.0 DIGITAL, RH
-1DL	1134400-46	N/A	N/A	N/A	51.0 DIGITAL, LH
-1L	1134400-26	16500	25000	TBD	51.0 LEFT HAND

RECEPTACLES ON THE UNIT AND MATING PLUG CONNECTORS ARE AS FOLLOWS:
A. MS27656T17B6P → MS27467T17B6S
B. MS3470W10-6P → MS3476W10-6S
A & B ARE PLUG LABELS. A IS THE A/C POWER IN, B IS D/C CONTROL POWER. MAY ALSO REF PIN DESIGNATIONS ON ELECTRICAL SCHEMATIC. MATING PLUG CONNECTORS NOT SUPPLIED WITH UNIT.



-1/-1D/-1DL CONFIGURATION
(-1 SHOWN)

BINARY PRESSURE SWITCH
HIGH PRESSURE: OPEN ON RISE @ 355-412 PSIG, CLOSE ON FALL @ 85±30 PSIG BELOW OPEN PRES.
LOW PRESSURE: OPEN ON FALL @ 25-35 PSIG, CLOSE ON RISE @ 25-35 PSIG

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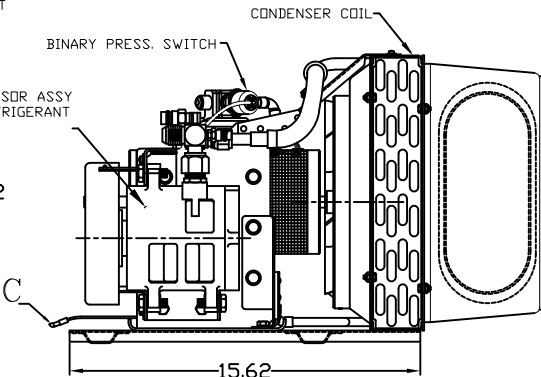
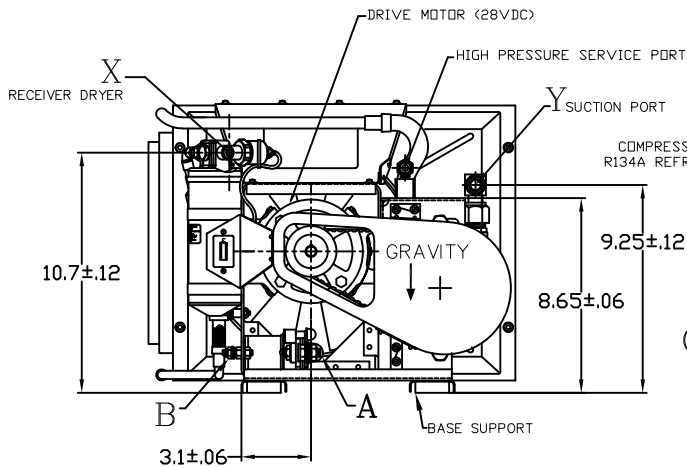
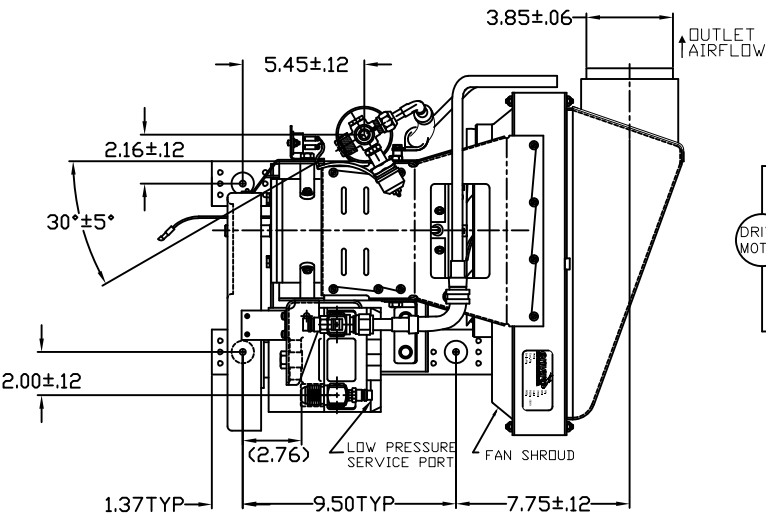
N/C

Paravion® Inc. ✓ Technology		TITLE COMPRESSOR/CONDENSER MODULE			DRAWING NO. ES90113		
DIMENSIONS IN INCHES							
TOLERANCES EXCEPT WHERE NOTED:		DRAWN BY	APRVD. BY	CHK'D BY	DATE	REV	ECO
.X = ± .1		REB	REB		11/17/04	E	
.XX = ± .05							
.XXX = ± .010							
ANGLES = ± 1°		DO NOT SCALE DRAWING				SHEET	
THREADS:		© 2016 PARAVION TECH., INC. PARAVION IS A TRADEMARK OF PARAVION TECHNOLOGY, INC.				1 OF 2	
INTERNAL=CLASS 2B							
EXTERNAL=CLASS 2A							

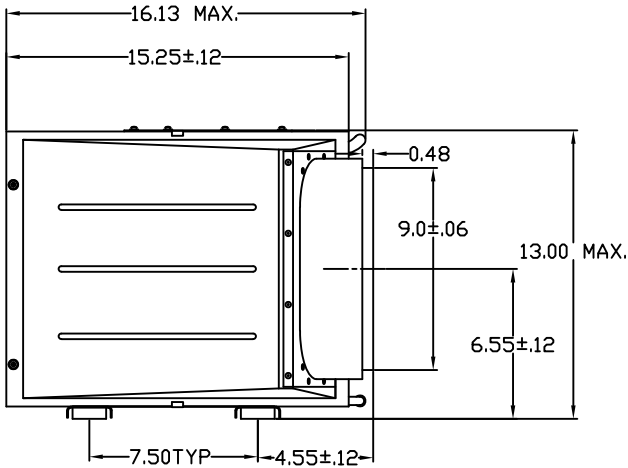
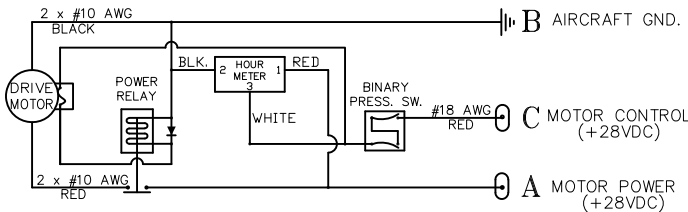
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TABULATION BLOCK

CONFIG.	STOCK NO.	CAPACITY (BTUH)	COND. HEAT REJ. (BTUH)	95°F	103°F	WEIGHT (LBS)
-2	1134400-58	16500	25000	TBD		48.0



CONNECTION BLOCK			
CONNECTION	DESCRIPTION	TYPE	SIZE
A	MOTOR INPUT POWER +28VDC CONNECTION	ELECTRICAL	3/8-24 THD
B	UNIT AND MOTOR GROUND CONNECTION	ELECTRICAL	1/4-28 THD
C	MOTOR RELAY CONTROL POWER, +28VDC CONNECTION	ELECTRICAL	AMP TERMINAL #31770
X	REC-DRYER DISCHARGE PORT CONNECTION	REFRIGERANT	#6 SAE FLARE 5/8-18 THD
Y	COMPRESSOR SUCTION PORT CONNECTION	REFRIGERANT	#10 SAE FLARE 7/8-14 THD



-2 CONFIGURATION

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PROTO

N/C

Paravion® ✓Technology Inc.		TITLE COMPRESSOR/CONDENSER MODULE			DRAWING NO. ES90113		
DIMENSIONS IN INCHES							
TOLERANCES EXCEPT WHERE NOTED:		DRAWN BY	APRVD. BY	CHK'D BY	DATE	REV	ECO
.X = ± .1		PM			08/04/16	E	
.XX = ± .05							
.XXX = ± .010							
ANGLES = ± 1°		DO NOT SCALE DRAWING				SHEET	
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